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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,971	06/21/2005	Tetsuo Kojima	14875-134US1	9138
26161 7590 05/01/2007 FISH & RICHARDSON PC P.O. BOX 1022			EXAMINER	
			BRISTOL, LYNN ANNE	
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER
			1643	
				-
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			05/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)			
Office Action Summer	10/510,971	KOJIMA, TETSUO			
Office Action Summary	Examiner	Art Unit			
	Lynn Bristol	1643			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on					
2a) ☐ This action is FINAL . 2b) ☐ This	· · · - · ·				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-18 are subject to restriction and/or election requirement.					
Application Papers					
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

1. Claims 1-18 are all the pending claims for this application and subject to lack of unity restriction.

Lack of Unity Restriction

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

To have a general inventive concept under PCT rule 13.1, the inventions need to be linked by a special technical feature. The special technical feature recited in claim 1 is a gene encoding two antibody variable domains where the domains are connected by a linker comprising a restriction enzyme site. In view of this, McGuinness et al. (Nat. Biotech. 14:1149-1154 (1996); cited in the IDS of 9/15/05) disclose the technical feature, and therefore, the claims are not linked to form a single inventive concept. McGuinness discloses generation of an expression cassette comprising a gene encoding a scFv or a diabody where the restriction enzyme sites are positioned between the encoded binding domains (Figure 2). Therefore the technical feature recited in claims 1-18 is not special. Accordingly the groups are not so linked as to form a single general concept under PCT Rule 13.1.

3. In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-12 and 18, drawn to a gene encoding two antibody variable domains and the domains are connected by a linker comprising a restriction enzyme

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site; a method for constructing a gene encoding a bispecific scFv; and an expression vector encoding the gene encoding two antibody variable domains and the domains are connected by a linker comprising a restriction enzyme site.

Group II, claim(s) 13, drawn to a peptide encoded by a gene encoding two antibody variable domains and the domains are connected by a linker comprising a restriction enzyme site.

Group III, claim(s) 14, drawn to an antibody library comprising a gene encoding two antibody variable domains and the domains are connected by a linker comprising a restriction enzyme site.

Group IV, claim(s) 15-17, drawn to a method for constructing an antibody library or expression vector comprising constructing an antibody phage display library; and a method for constructing an antibody library or expression vector comprising inserting a gene encoding two antibody variable domains into a gene encoding two antibody variable domains and the domains are connected by a linker comprising a restriction enzyme site.

4. The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: As set forth above, in view of the teaching of McGuinness et al. the groups are not so linked as to form a single general concept under PCT Rule 13.1 because the technical feature of claims 1-18 is not special.

The inventions of Groups I-IV are separate and distinct as follows:

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5. The gene of Group I, the peptide of Group II and the antibody library of Group III are not overlapping in structure or function, and are distinct and separate.

- 6. The antibody library of Group III and the method of producing the antibody library of Group IV are related as product and process of making, but the antibody library can be made by a materially different process such as screening patient serum for antibodies using protein arrays comprising antigens relevant to the patient (Cekaite et al. Methods Mol Biol. 360:335-348 (2007)).
- 7. The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynn Bristol whose telephone number is 571-272-6883. The examiner can normally be reached on 8:00-4:00, Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms can be reached on 571-272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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CARRY R. HELMS, PH.D.